

Nipissing University Varsity Hockey - If We Build It, Will They Come?

TEAM: Gwynneth H. & Kyrianna K.

Engineering Objective

The objective was to create a product that could be used by the Nipissing University Varsity Hockey team to improve their performance on the ice.

When was the product invented?

- The first roller skates were invented in 1791 by Joseph Merlin.
- The first ice hockey rink was built in 1875 in Montreal, Quebec.
- The first ice hockey game was played in 1875 in Montreal, Quebec.
- The first ice hockey league was founded in 1904 in Montreal, Quebec.
- The first ice hockey world championship was held in 1920 in London, England.



What need did the product address?

- The need for a product that could be used by the Nipissing University Varsity Hockey team to improve their performance on the ice.
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- The need for a product that could be used by the Nipissing University Varsity Hockey team to improve their performance on the ice.



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4677

2234

3657

3772

2363

6777

554

What are the product's features?

- The product is made of metal and plastic.
- The product is designed to be used by the Nipissing University Varsity Hockey team to improve their performance on the ice.
- The product is designed to be used by the Nipissing University Varsity Hockey team to improve their performance on the ice.



Existing Patents

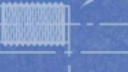
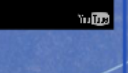
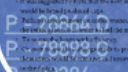
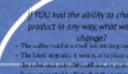
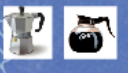
- U.S. Patent 4,500,000 for a hockey puck.
- U.S. Patent 4,500,001 for a hockey puck.
- U.S. Patent 4,500,002 for a hockey puck.



578

What materials were originally used to make the product?

- The materials were steel, brass, and plastic.
- The materials were steel, brass, and plastic.
- The materials were steel, brass, and plastic.



R - 87761

R - 62997

R - 62965

D - 62990 B

R - 28864

R - 22957

R - 62297

R - 8446W

F - 69095

F - 76639

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425 +- 002

2199

187

1003

3828

726

39

114°

4509

8MM U.P.S. STD PIPE TAP FOR PRESSURE GAUGE CONNECTION

847

41°

779

10 MM U.P.S. STD PIPE TAP FOR FILTER CONNECTION

45°

578

W - 39774

W - 39777

W - 97652

W - 59762

W - 59762

W - 59762

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8MM U.P.S. STD PIPE TAP FOR PRESSURE GAUGE CONNECTION

TEAM: Gwynneth H. & Kyrianna K.

Engineering Objective

When was the product invented?

- The first coffee maker was invented in 1780 by a Swiss inventor, Deterich Sauer.
- The modern percolator was developed in the 1830s by a Swiss inventor, Hans Gessner.
- The first electric coffee maker was invented in 1906 by a Swiss inventor, Nestlé.
- The first automatic coffee maker was invented in 1930 by a Swiss inventor, Nestlé.
- The first drip coffee maker was invented in 1946 by a Swiss inventor, Nestlé.



What need did the product address?

- The need for a convenient way to brew coffee.
- The need for a coffee maker that was easy to use.
- The need for a coffee maker that was affordable.
- The need for a coffee maker that was reliable.



What materials were used to make the product?

- The materials used were metal glass and plastic.
- The materials used were stainless steel, glass, and plastic.
- The materials used were aluminum, glass, and plastic.

What materials were originally used to make the product?

- The materials used were metal glass and plastic.
- The materials used were stainless steel, glass, and plastic.
- The materials used were aluminum, glass, and plastic.

Existing Patents

- U.S. Patent 1,100,000 (1934) for a coffee maker.
- U.S. Patent 2,100,000 (1942) for a coffee maker.
- U.S. Patent 3,100,000 (1964) for a coffee maker.



What were the problems to be solved?

- The problem was that the coffee maker was too expensive.
- The problem was that the coffee maker was too complicated.
- The problem was that the coffee maker was too slow.



What improvements have been made to the product?

- The improvements made were that the coffee maker is now cheaper.
- The improvements made were that the coffee maker is now simpler.
- The improvements made were that the coffee maker is now faster.



Why were these improvements made?

- The improvements were made to make the coffee maker more affordable.
- The improvements were made to make the coffee maker easier to use.
- The improvements were made to make the coffee maker faster.



What is the goal, what is the history of the product, and what is the background?

- The goal is to create a coffee maker that is affordable, simple, and fast.
- The history of the product is that it was invented in 1780 by a Swiss inventor.
- The background is that the coffee maker is a popular household appliance.



YOU had the ability to change the product in any way, what would you change?

- The changes that would be made are that the coffee maker would be even cheaper.
- The changes that would be made are that the coffee maker would be even simpler.
- The changes that would be made are that the coffee maker would be even faster.



Engineering Discipline:

- This particular machine, the coffee maker, involves Mechanical Engineering. This particular field concerns the development of devices and machines to serve a particular task or create a solution to a problem. The coffee maker perfectly fits this description.

When was the product invented?

- The first coffee maker was created in 1818 in Paris France.
- The percolator consisted of a metal pot with a chamber at the bottom, then add heat.
- A vertical pipe extends from the chamber to the top.
- On top of that pipe is a percolator chamber.
- When water as heated it went up the pipe and mixed with the coffee.



What need did the product address?

- Having a fresh cup of coffee can make you feel lively and has caffeine in it to alert.
- So basically the coffee maker gave you coffee instantly.
- All you have to do it wait for a few minutes and presto!
- With the coffee maker advancing over the years, you have many choices.
- From grande latte's to shots of espresso, all in the matter of pushing a button!

